

HYDROGEN-ABSORBING ALLOY AND  
HYDROGEN-ABSORBING ALLOY ELECTRODE

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ABSTRACT OF THE DISCLOSURE

10 To provide a hydrogen absorbing alloy having a BCC  
(body-centered cubic structure) as a crystal structure,  
and particularly a hydrogen-absorbing alloy for a nickel-  
hydride cell having excellent discharge capacity and  
durability (cycle characteristics), said hydrogen-  
15 absorbing alloy having a composition expressed by the  
general formula  $Ti(100-a-b-c-d)Cr_aV_bNi_cX_d$ , where X is at  
least one member selected from the group consisting of Y  
(yttrium), lanthanoids, Pd and Pt, and each of a, b, c and  
d is represented, in terms of at%, by the relations  $8 \leq a$   
 $\leq 50$ ,  $30 < b \leq 60$ ,  $5 \leq c \leq 15$ ,  $2 \leq d \leq 10$  and  $40 \leq a + b +$   
20  $c + d \leq 90$ , wherein the crystal structure of a principal  
phase is a body-centered cubic structure, and further, the  
alloy contains at least one of Mo and W in place of V and  
at least one member selected from the group consisting of  
Y (yttrium), lanthanoids, Pd and Pt, and its crystal  
25 structure is converted to the body-centered cubic  
structure by heat-treatment.